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(54) Title: **Zn<sup>2+</sup>-CHELATING MOTIF-TETHERED SHORT -CHAIN FATTY ACIDS AS A NOVEL CLASS OF HISTONE DEACETYLASE INHIBITORS**

Valproic acid	Linker	Zn <sup>2+</sup> -chelating group	Derivatives

(57) Abstract: Zn<sup>2+</sup>-chelating motif-tethered fatty acids as histone deacetylase (HDAC) inhibitors. Compounds performed well in *in vitro* and *in vivo* tests.